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(54) BACKSCATTER COMMUNICATION METHOD, EXCITATION DEVICE, BACKSCATTER DEVICE, AND RECEIVING DEVICE

(57) Embodiments of this application disclose a backscatter communication method and a related apparatus. The method includes: An excitation device determines a first sequence, generates a first signal, and sends the first signal, where the first signal carries the first sequence; after receiving the first signal, a backscatter device modulates backscatter device data onto the received first signal to obtain a second signal, and backscatters the second signal, to implement first scrambling on the backscatter device data by using the first sequence; and a receiving device determines the first sequence, receives the second signal from the backscatter device, and demodulates the received second signal based on the first sequence, to obtain the backscatter device data carried on the second signal. According to the embodiments of this application, an anti-interference capability of the backscatter device data can be improved, persistent interference in a backscatter communication process can be reduced, and an anti-interference capability and network performance of a backscatter communication network can be improved.

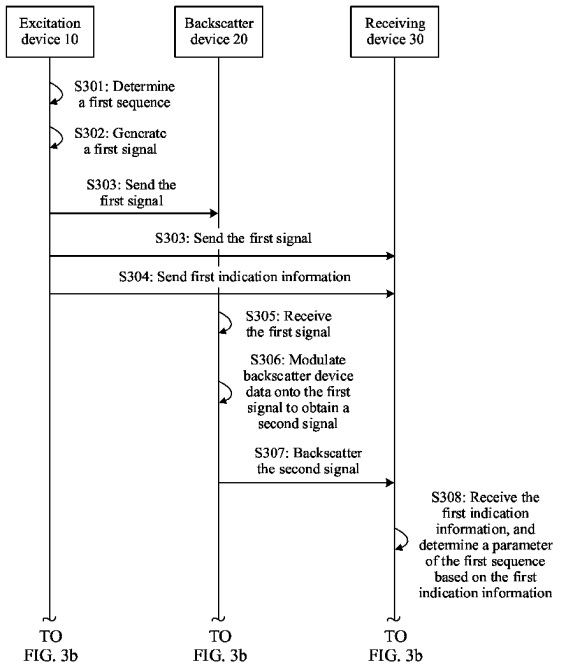

FIG. 3a

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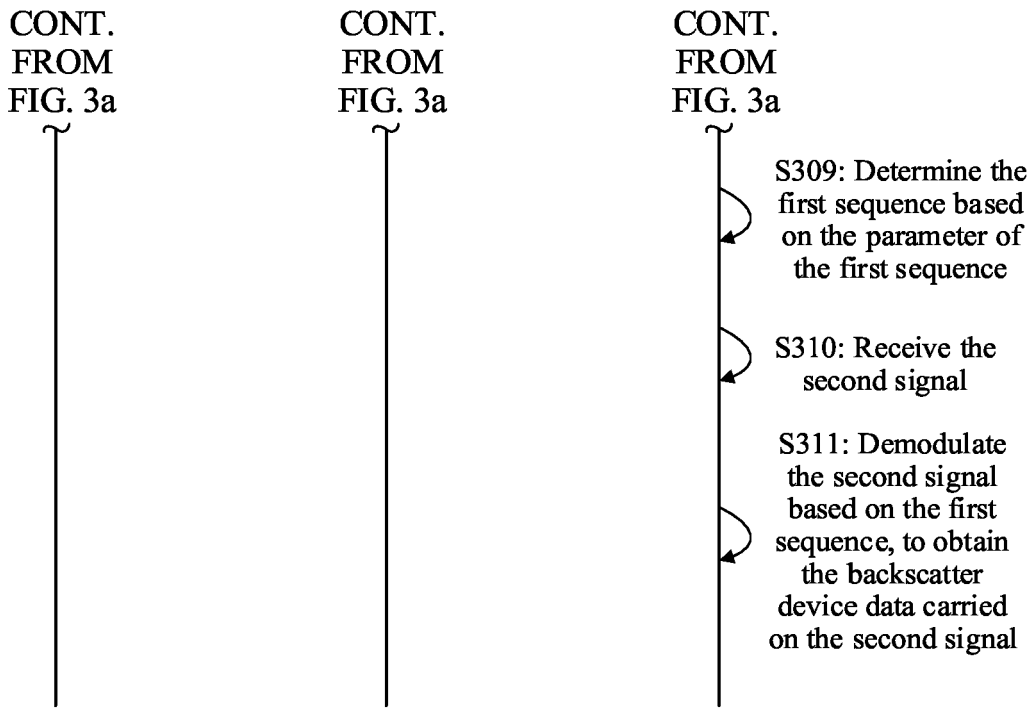
CONT. FROM FIG. 3a
CONT. FROM FIG. 3a
CONT. FROM FIG. 3a
S309: Determine the first sequence based on the parameter of the first sequence
S310: Receive the second signal
S311: Demodulate the second signal based on the first sequence, to obtain the backscatter device data carried on the second signal

FIG. 3b

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EUROPEAN SEARCH REPORT

Application Number
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The present search report has been drawn up for all claims

Place of search	Date of completion of the search	Examiner
Munich	4 June 2025	Castagnola, Bruno

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